

CLAIMS

- 1 1. A method of heating glass contacting surfaces, comprising the steps of:
 - 2 heating said glass contacting surfaces to a predetermined operating temperature;
 - 3 said heating of said glass contacting surfaces is accomplished by combustion of a
 - 4 predetermined gas in a flame; and
 - 5 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
 - 6 approximately 90 percent by volume of MAPP gas.

- 1 2. A method according to claim 1, wherein:
 - 2 said heating of said glass contacting surfaces to said predetermined operating
 - 3 temperature is done before said glass contacting surfaces begin a production run.

- 1 3. A method according to claim 1, wherein:
 - 2 said heating of said glass contacting surfaces to said predetermined operating
 - 3 temperature is done to maintain said glass contacting surfaces at said predetermined
 - 4 operating temperature during a production run.

- 1 4. A method according to claim 1, wherein:
 - 2 said heating of said glass contacting surfaces to said predetermined operating
 - 3 temperature is done before said glass contacting surfaces begin a production run and is
 - 4 also done to maintain said glass contacting surfaces at said predetermined operating
 - 5 temperature during a production run.

1 5. A method according to claim 1, wherein:

2 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
3 approximately 90 percent by volume of MAPP gas and approximately 10 percent by volume
4 of propane.

1 6. A method according to claim 2, wherein:

2 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
3 approximately 90 percent by volume of MAPP gas and approximately 10 percent by volume
4 of propane.

1 7. A method according to claim 3, wherein:

2 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
3 approximately 90 percent by volume of MAPP gas and approximately 10 percent by volume
4 of propane.

1 8. A method according to claim 4, wherein:

2 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
3 approximately 90 percent by volume of MAPP gas and approximately 10 percent by volume
4 of propane.

5 9. A method according to claim 1, wherein:

6 said heating of said glass contacting surfaces is accomplished by combustion of said
7 predetermined gas in said flame delivered to said glass contacting surfaces.

1 10. A method according to claim 1, wherein:

2 said heating of said glass contacting surfaces is accomplished by combustion of said

3 predetermined gas in said flame delivered near said glass contacting surfaces.

1 11. A hydrocarbon fuel gas mixture especially suited for heating glass contacting

2 surfaces and/or lubricating purposes, comprising:

3 a hydrocarbon fuel gas mixture which includes approximately 90 percent by volume

4 of MAPP gas.

1 12. A hydrocarbon fuel gas mixture according to claim 11, wherein:

2 said hydrocarbon fuel gas mixture includes approximately 90% by volume of MAPP

3 gas and approximately 10% by volume of propane.

1 13. A method of heating glass contacting surfaces, comprising the steps of:

2 heating said glass contacting surfaces to a predetermined operating temperature;

3 said heating of said glass contacting surfaces is accomplished by combustion of a

7 predetermined gas in a flame;

8 said heating of said glass contacting surfaces is started with a 100% mixture of

9 MAPP gas to limit carbon skeleton formation;

10 then there is introduced a small quantity of natural gas which has extra hydrogen

11 atoms to give a suppressive influence for carbon formation; and

12 said heating of said glass contacting surfaces is maintained to avoid any chance of

13 dirty glass contacting surfaces.

1 14. A method according to claim 13, wherein:

2 said heating of said glass contacting surfaces to said predetermined operating

3 temperature is done before said glass contacting surfaces begin a production run.

1 15. A method according to claim 13, wherein:

2 said heating of said glass contacting surfaces to said predetermined operating

3 temperature is done to maintain said glass contacting surfaces at said predetermined

4 operating temperature during a production run.

6 16. A method according to claim 13, wherein:

7 said heating of said glass contacting surfaces to said predetermined operating

8 temperature is done before said glass contacting surfaces begin a production run and is

9 also done to maintain said glass contacting surfaces at said predetermined operating

10 temperature during a production run.

1 17. A method according to claim 13, wherein:

2 if propagation of carbon skeletons is too abundant, then said MAPP gas should be

3 turned off for a predetermined period of time to restore said glass contacting surfaces to

4 a clean condition.

1 18. A method of heating glass contacting surfaces, comprising the steps of:
2 heating said glass contacting surfaces to a predetermined operating temperature;
3 said heating of said glass contacting surfaces is accomplished by combustion of a
4 predetermined gas in a flame;
5 said heating of said glass contacting surfaces is started with a 100% mixture of
6 MAPP gas to limit carbon skeleton formation;
7 then said MAPP gas is mixed with air to produce a heat transfer system which will
8 maintain a sustained temperature on the average of 1800 K; and
9 said heating of said glass contacting surfaces is maintained to avoid any chance of
10 dirty glass contacting surfaces.

1 19. A method according to claim 18, wherein:
2 in said mixing step, said MAPP gas is mixed with air and natural gas.

1 20. A method according to claim 19, wherein:
2 in said mixing step, approximately 20 parts methylacetylene is used.